

Amendments to the claims

This listing of claims replaces all prior versions and listings of claims in the application.

In the claims

Please amend the claims as follows:

Listing of the claims

1. (Currently amended) In a data processing system having a windows-based graphical user interface (GUI), ~~the improvement~~ a computer-implemented method comprising:

an integrated visual design environment (VDE) ~~comprising having~~ a structured data source first display panel including a structured data source having design elements and attributes in which a structured data source is displayed, and a document design second display panel for displaying a document being designed from the structured data source displayed in the structured data source display panel, the structure data source display panel and the document design display panel displayed simultaneously;

~~code responsive to dragging and dropping selected design elements or attributes from the structured data source in the structured data source display panel to the document in the document design display panel selection and positioning in the second display panel of given design elements or attributes from the structured data source to generate for generating a meta stylesheet; and~~

~~code for automatically generating from the meta-stylesheet two or more stylesheets from within the VDE integrated visual design environment from the meta stylesheet, wherein each of the stylesheets is useful for generating the document being designed in a given output format.~~

2. (Currently amended) ~~In the data processing system as described in claim 1 further including~~
The computer-implemented method of claim 1 further comprising:

~~code responsive to a given selection for selectively displaying a preview of a given one of the two or more stylesheets.~~

3. (Currently amended) ~~In the data processing system as described in~~ The computer-implemented method of claim 1 wherein the structured data source is an extensible markup language (XML) document.
4. (Currently amended) ~~In the data processing system as described in~~ The computer-implemented method of claim 1 wherein the structured data source is a Document Type Definition (DTD).
5. (Currently amended) ~~In the data processing system as described in~~ The computer-implemented method of claim 1 wherein the structured data source is an XML Schema.
6. (Currently amended) ~~In the data processing system as described in~~ The computer-implemented method of claim 1 wherein the structured data source is a relational database.
7. (Currently amended) ~~In the data processing system as described in~~ The computer-implemented method of claim 1 wherein the structured data source is an Electronic Data Interchange (EDI) document.
8. (Currently amended) ~~In the data processing system as described in~~ The computer-implemented method of claim 3 wherein the two or more stylesheets include an Extensible Stylesheet Language Transformations (XSLT) stylesheet for transforming the XML document into hypertext markup language (HTML).
9. (Currently amended) ~~In the data processing system as described in~~ The computer-implemented method of claim 3 wherein the two or more stylesheets include an XSLT stylesheet to facilitate transformation of the XML document into portable document format (PDF) via Extensible Stylesheet Language Formatting Objects (XSL:FO).
10. (Currently amended) ~~In the data processing system as described in~~ The computer-implemented method of claim 3 wherein the two or more stylesheets include an XSLT stylesheet for transforming the XML document into wireless markup language (WML).

11. (Currently amended) ~~In the data processing system as described in~~ The computer-implemented method of claim 1 wherein the integrated visual design environment further comprises ~~also includes~~ a manipulation display panel for manipulating schema elements and attributes.

12. (Currently amended) ~~In the data processing system as described in~~ The computer-implemented method of claim 11 wherein the manipulation display panel for manipulating schema elements and attributes includes a text style display window and an associated control mechanism to provide text formatting.

13. (Currently amended) ~~In the data processing system as described in~~ The computer-implemented method of claim 11 wherein the manipulation display panel for manipulating schema elements and attributes includes a block system display window and an associated control mechanism to provide block formatting.

14. (Currently amended) ~~In the data processing system as described in~~ The computer-implemented method of claim 1 further comprising including:
~~code responsive to a given selection for selectively displaying a preview of an output document rendered as a result of applying a given one of the two or more stylesheets to a user-supplied document or data.~~

15. (Currently amended) A data processing system having a windows-based graphical user interface (GUI), comprising:

a an integrated visual design environment (VDE) display ~~environment~~ having a structured data source ~~first~~ display panel in which a structured data source is displayed, and a document design ~~second~~ display panel for displaying a document being designed from the structured data source in the structured data source display panel, the structure data source display panel and the document design display panel displayed simultaneously, wherein the data source is selected from a set of data sources comprising including: an extensible markup language (XML) document, an XML schema, a Document Type Definition (DTD), an Electronic Data Interchange (EDI) document, a relational database, and a Web service;

dragging and dropping selected design elements or attributes from the structured data source in the structured data source display panel to the document in the document design display panel to generate code responsive to selection and positioning in the second display panel of given design elements or attributes from the structured data source for generating given program code; and

code for automatically generating two or more program code instances within the integrated visual design environment from the given program code two or more program code instances from within the integrated visual design environment, wherein each of the program code instances is useful for generating the document being designed in a given output format.

16. (Currently amended) The data processing system ~~as described in~~ of claim 15 wherein a given program code instance is an XSLT stylesheet.

17. (Currently amended) The data processing system ~~as described in~~ of claim 15 wherein a given program code instance is code written in a programming language selected from a set of available language templates.

18. (Currently amended) The data processing system ~~as described in~~ of claim 15 further including comprising:

~~code responsive to a given selection for~~ selectively displaying a preview of a given one of the program code instances.

19. (Currently amended) The data processing system ~~as described in~~ of claim 15 further including comprising:

~~code responsive to a given selection for~~ selectively displaying a preview of an output document rendered as a result of applying a given one of the program code instances.

20. (Currently amended) A display method operative in a data processing system having a windows-based graphical user interface (GUI), comprising:

displaying, in juxtaposition, both a structured data source and a document being designed from the structured data source simultaneously in a single integrated visual design environment (VDE), wherein the structured data source is selected from a set of data sources comprising

~~including:~~ an extesnsible markup language (XML) ~~XML~~ document, an XML schema, a Document Type Definition (DTD), an Electronic Data Interchange (EDI) document, a relational database, and a Web service;

generating program code responsive to dragging and dropping selected design elements or attributes from the structured data source to the document being designed ~~responsive to selection and positioning in the document being designed of given design elements or attributes from the structured data source, generating given program code;~~

automatically generating ~~from the given program code~~ two or more program code instances from the program code, ~~wherein each of the program code instances is useful for~~ generating the document being designed in a given output format; and

selectively displaying a preview of an output document rendered as a result of applying a ~~given~~ one of the program code instances.